

Sex Ratio Equation

Theoretical Elements of Sex Ratio Evolution - Joseph William Stubblefield 1982

Wildlife Demography - John R. Skalski 2010-07-20

Wildlife Demography compiles the multitude of available estimation techniques based on sex and age data, and presents these varying techniques in one organized, unified volume. Designed to guide researchers to the most appropriate estimator based upon their particular data set and the desired level of study precision, this book provides quantitative consideration, statistical models, estimator variance, assumptions and examples of use. The authors focus on estimation techniques using sex and age ratios because this data is relatively easy to collect and commonly used by wildlife management. Applicable to a wide array of wildlife species, including game and non-game birds and mammals Features more than 100 annotated examples illustrating application of statistical methods Includes more than 640 references of the analysis of nontagging data and the factors that may influence interpretation Derives historical and ad hoc demographic methods in a modern statistical framework

Papers - 1973

Gender-structured Population Modeling - M. Iannelli 2005-04-01

This book gives a unified presentation of, and mathematical framework for, modeling population growth by couple formation, summarizing both past and present modeling results. It provides results on model analysis, gives an up-to-date review of mathematical demography, discusses numerical methods, and puts deterministic modeling of human populations into historical perspective.

Developmental Estimates of the Coverage of the Population of States in the 1970 Census - United States. Bureau of the Census 1977

Describes the results of the Bureau's exploratory effort to apply the methodology of demographic analysis to the measurement of the coverage of the population of States in 1970. The monograph provides several sets of estimates of the completeness.

Sex Ratios - Ian Hardy 2002

Sex ratios, the proportions of males and females in any given species, are important in evolutionary and behavioural ecology. This volume explores the context to and methods for many aspects of research on sex ratios, and will be an indispensable reference for all those working in this area.

Egg Parasitoids in Agroecosystems with Emphasis on Trichogramma - Fernando L. Consoli 2010-09-28

Egg Parasitoids in Agroecosystems with emphasis on Trichogramma was conceived to help in the promotion of biological control through egg parasitoids by providing both basic and applied information. The book has a series of chapters dedicated to the understanding of egg parasitoid taxonomy, development, nutrition and reproduction, host recognition and utilization, and their distribution and host associations. There are also several chapters focusing on the mass production and commercialization of egg parasitoids for biological control, addressing important issues such as parasitoid quality control, the risk assessment of egg parasitoids to non-target species, the use of egg parasitoids in integrated pest management programs and the impact of GMO on these natural enemies. Chapters provide an in depth analysis of the literature available, are richly illustrated, and propose future trends.

Optima for Animals - R. McNeill Alexander 2020-11-10

Optimization theory is designed to find the best ways of doing things.

The structures of animals, their movements, their behavior, and their life histories have all been shaped by the optimizing processes of evolution or of learning by trial and error. In this revised edition of R. McNeill Alexander's widely acclaimed *Optima for Animals*, we see how extraordinarily diverse branches of biology are illuminated by the powerful methods of optimization theory. What is the best strength for a bone? Too weak a bone will probably break but an excessively stout one will be cumbersome. At what speed should humans change from walking to running? Should a bird take only big juicy worms or should it eat every worm it finds, and do birds make the best choices? Why do the males of some species of fishes and the females of others look after the young, while the young of others are looked after by both parents or neither? Is it possible that all these policies can be optimal, in different circumstances? This book shows how these and many other questions can be answered. The mathematics involved is explained very simply, with biology students in mind, but the book is not just for them. It is also for professionals, ranging from teachers to researchers.

Social Evolution in Ants - Andrew F.G. Bourke 2019-12-31

Biologists since Darwin have been intrigued and confounded by the complex issues involved in the evolution and ecology of the social behavior of insects. The self-sacrifice of sterile workers in ant colonies has been particularly difficult for evolutionary biologists to explain. In this important new book, Andrew Bourke and Nigel Franks not only present a detailed overview of the current state of scientific knowledge about social evolution in ants, but also show how studies on ants have contributed to an understanding of many fundamental topics in behavioral ecology and evolutionary biology. One of the substantial contributions of *Social Evolution in Ants* is its clear explanation of kin selection theory and sex ratio theory and their applications to social evolution in insects. Working to dispel lingering skepticism about the validity of kin selection and, more broadly, of "selfish gene" theory, Bourke and Franks show how these ideas underpin the evolution of both cooperation and conflict within ant societies. In addition, using simple algebra, they provide detailed explanations of key mathematical models.

Finally, the authors discuss two relatively little-known topics in ant social biology: life history strategy and mating systems. This comprehensive, up-to-date, and well-referenced work will appeal to all researchers in social insect biology and to scholars and students in the fields of entomology, behavioral ecology, and evolution.

Economic Evolution and Demographic Change - Günter Haag 2012-12-06

The articles collected in this volume have two features in common: they want to integrate economics, demography and geography, and they want to overcome the stationary approach in modelling in favour of a dynamic one. The book is subdivided into three parts, where Part I is focussing on economic evolution, Part II on geographical development and Part III is related to demographic change. The present volume aims at providing a new look at this triangle in view of the classical background of discussions by introducing new research ideas focussing in nonlinear dynamics and stochastic modelling. Thus the main purpose of this book is to make a contribution to the interdisciplinary work needed to integrate the efforts between these three research fields and to serve as a research source in demonstrating the current state of art in dynamic modelling. The book is addressed to social scientists in general, and those in particular with a background in economics, geographics and demographics. It should also be of interest to mathematicians, physicists, and systems analysts interested in model building and applications of nonlinear dynamics.

The Impact of Sex Ratios Before Marriage on Household Saving in Two Asian Countries - Charles Yuji Horioka 2016

This paper estimates a household saving rate equation for India and the Republic of Korea using long-term time series data for the 1975-2010 period, focusing in particular on the impact of the premarital sex ratio on the household saving rate. To summarize the main findings of the paper, it finds that the premarital sex (or gender) ratio (the ratio of males to females) has a significant impact on the household saving rate in both India and the Republic of Korea, even after controlling for the usual suspects such as the aged and youth dependency ratios and income. It has a negative impact in India, where the bride's side has to pay

substantial dowries to the groom's side at marriage, but a positive impact in the Republic of Korea, where, as in the People's Republic of China, the groom's side has to bear a disproportionate share of marriage-related expenses including purchasing a house or condominium for the newlywed couple.

Introduction to the Mathematics of Population with Revisions -

Nathan Keyfitz 1977

Textbook on the mathematics of population analysis and demography - includes discrete analysis, continuous analysis, numerical techniques, probability models, projection matrices, etc. Bibliography pp. 413 to 431, and index.

Federal Register - 1978-07

Love and Life Between the Censuses - Marc Nerlove 1970

A simultaneous equation model for various demographic economic behavior linked to the family formation process is described. It predicts fertility, regional migration, personal incomes, legal and consensual marriages, and women's participation in the labor force as jointly determined functions of death rates, industrial structure, education, and unemployment. The model is based on data obtained from contemporary census and vital statistics for 75 [municipios] of Puerto Rico. 19 pp.

Calculation of Productivity, Survival, and Abundance of Selected Vertebrates from Sex and Age Ratios - William R. Hanson 1963

The methods and materials of demography - Henry S. Shryock 1980

The Impact of Pre-marital Sex Ratios on Household Saving in Two Asian Countries - Charles Yuji Horioka 2016

This paper estimates a household saving rate equation for India and Korea using long-term time series data for the 1975-2010 period, focusing in particular on the impact of the pre-marital sex ratio on the household saving rate. To summarize the main findings of the paper, it finds that the pre-marital sex (or gender) ratio (the ratio of males to females) has a significant impact on the household saving rate in both

India and Korea, even after controlling for the usual suspects such as the aged and youth dependency ratios and income. It has a negative impact in India, where the bride side has to pay substantial dowries to the groom side at marriage, but a positive impact in Korea, where, as in China, the groom side has to bear a disproportionate share of marriage-related expenses including purchasing a house or condominium for the newlywed couple.

Memorandum - 1961

The Theory of Sex Allocation. (MPB-18), Volume 18 - Eric L. Charnov 2020-03-31

This book is the first comprehensive treatment of sex allocation from the standpoint of modern evolutionary theory. It shows how the determination of sex ratio, resource allocation to sperm versus egg within simultaneous hermaphroditism, and the evolution of sex reversal can be explained as examples of a single process. The genetical theory, developed mostly with graphical arguments, also specifies when hermaphroditism and dioecy are themselves evolutionary stable. The work balances theory with field and laboratory research, providing critical tests of the theory by empirical studies of sex ratio in parasitoid wasps and mites, sex reversal in shrimp and coral reef fish, and allocation of resources to pollen versus seeds in higher plants. In addition, the author offers an encyclopedic review of the field and laboratory work of other scientists, reviews many as yet untested hypotheses in sex allocation, and points toward numerous plant and animal systems that hold promise for future tests.

A Primer of Molecular Population Genetics - Asher D. Cutter 2019

What are the genomic signatures of adaptations in DNA? How often does natural selection dictate changes to DNA? How does the ebb and flow in the abundance of individuals over time get marked onto chromosomes to record genetic history? Molecular population genetics seeks to answer such questions by explaining genetic variation and molecular evolution from micro-evolutionary principles. It provides a way to learn about how evolution works and how it shapes species by incorporating molecular

details of DNA as the heritable material. It enables us to understand the logic of how mutations originate, change in abundance in populations, and become fixed as DNA sequence divergence between species. With the revolutionary advances in genomic data acquisition, understanding molecular population genetics is now a fundamental requirement for

today's life scientists. These concepts apply in analysis of personal genomics, genome-wide association studies, landscape and conservation genetics, forensics, molecular anthropology, and selection scans. This book introduces, in an accessible way, the bare essentials of the theory and practice of molecular population genetics.

Sex Ratio Equation:

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